

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 31/03/2017 Revision date: 22/06/2018 Supersedes: 31/03/2017 Version: 2.0 CNLM-6836-SL

1.1 Product identifier Product form : Substance Substance name : 2'DEOXYGUANOSINE 5'-MONOPHOSPHATE (U-13C, 99%; U-15N, 98%) EC-No. : 212-989-2 (Unlabeled) Product code : CNLM-630-5L Formula : 'OC9H14'NN407P Synonyms :: 5'Deoxyguanylic acid dGMP 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. Relevant identified uses Main use category : Professional use Industrial/Professional use pace : For professional use only 1.2.1. Uses advised against No additional information available	SECTION 1: Identification of the substance/mixture and of the company/undertaking			
Substance name 2 2-DEOXYGUANOSINE 5-MONOPHOSPHATE (U-13C, 98%; U-15N, 98%) EC-No. 2 12-988-2 (Unlabeled) CAS-No. 9 02-045 (Unlabeled) Product code 2 CU-ULA-6836-SL Formula 2 CO-9H14/NNAO7P Synonyms 5 -Deoxyguanylic acid dGMP 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. Relevant identified uses Main use category E Professional use Industrial/Professional use species For professional use only 1.2.1. Uses advised against Notadditional information available For professional use only 1.2.2. Uses advised against Notadditional information available For professional use only 1.3. Details of the supplier of the safety data sheet Cambridge locologic Laboratories, Inc. So Frontage Road Andvore, MA 101810 So USA: Henergency telephone number Emergency numbers: Characteristication Characteristication develogic (D No 1272/2008 [CLP] Not dassified Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] Not dassified So Forol				
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EC-No. : 127298-2 (Unlabeled) CASNO. : 902045 (Unlabeled) Product code : 0CULM 4838-5L Formula : COUM 4838-5L Formula : COUM 4838-5L Formula : COUM 4007P Synonyms : 5-Dooxyguanylic acid dGMP 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2. Uses advised against Na distinal/Professional use spec : For professional use only 1.2. Uses advised against 1.2. Uses advised against 1.3. Details of the supplier of the safety data sheet Cambridge Isotope Laboratories, Inc. So Frontage Read Andover, IMA 01810 USA USA USA 1.400-322-1174 Int: 1-978-749-8000 classified isotope.com Emergency telephone number Emergency telephone number Emergency numbers: SECTION 22 Hazards identified toor 2.1. Classification of the substance or mixture Classified on according to Regulation (EC) No. 1272/2008 [CLP] Not classified Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] Not classified Classification Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] Not classified Classification according to Nerset Scheme				
CAS-No. : 902-04-5 (Unlabeled) Product code : CNLM-6836-SL Formula : CCSH14/FNNA07P Synonyms : COSH14/FNNA07P Synonyms : COSH14/FNNA07P 3. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. Relevant identified uses Main use category : Professional use Industrial/Professional use spec : For professional use only 1.2.2. Uses advised against No additional information available 1.3. Details of the supplier of the safety data sheet Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 USA: 1-800-322-1174 Int: 1-978-749-8000 clasele Sisotope com www.isotope.com Emergency telephone number Emergency members: Chemtrec: 1-800-424-8300 (24 hours) International: 1-703-741-5970 (24 hours) SECETION 2: Hazards identification 21. Classification according to Bregulation (EC) No. 1272/2008 [CLP] Not classified Classification according to Directive 67/549/EEC [DSD] or 1999/45/EC [DPD] Not classified GHS-US classification Adverse physicochemical, human health and environmental effects No additional information available				
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No additional information available	Not classified			
No additional information available	Advance advantage beneficial burgers bealth and environmental offects			
		environmental effects		
	No additional information available			
2.2. Label elements				

Labeling according to Regulation (EC) No. 1272/2008 [CLP] No labeling applicable

GHS-US labeling

No labeling applicable

98%) CNLM-6836-SL

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2.3. Other hazards

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
2'-DEOXYGUANOSINE 5'-MONOPHOSPHATE (U-13C, 98%; U-15N, 98%)	(CAS-No.) 902-04-5 (Unlabeled) (EC-No.) 212-988-2 (Unlabeled) (EC Index-No.)	100	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
	(CAS-No.) 902-04-5 (Unlabeled)	100	Not classified

Full text of R- and H- phrases: see section 16

Name	Product identifier	%	GHS-US classification
2'-DEOXYGUANOSINE 5'-MONOPHOSPHATE (U-13C, 98%; U-15N, 98%) (Main constituent)	(CAS-No.) 902-04-5 (Unlabeled)	100	Not classified

Full text of H-phrases: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures			
4.1. Description of first aid measures			
: If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area			
: When symptoms occur: go into open air and ventilate suspected area. If not breathing, give artificial respiration. Get medical advice/attention.			
: Wash with plenty of soap and water. Get immediate medical advice/attention.			
: Rinse cautiously with water for several minutes.			
: Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.			
effects, both acute and delayed			
: May be harmful if inhaled. May cause respiratory irritation.			
: May be harmful in contact with skin. May cause moderate irritation.			
: May cause eye irritation.			
: May be harmful if swallowed.			
edical attention and special treatment needed			
4.3. Indication of any immediate medical attention and special treatment needed No additional information available			
SECTION 5: Firefighting measures			
: Water spray. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).			
: Water spray. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).			

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SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipment and emergency procedures			
6.1.1. For non-emergency personnel			
Emergency procedures	: Use personal protective equipment as required. Avoid breathing vapors, mist, gas. Avoid dust formation. Ensure adequate air ventilation. Evacuate unnecessary personnel. Evacuate danger area.		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2. Environmental precautions			
Prevent entry to sewers and public waters. Do	not allow to enter drains or water courses. Avoid release to the environment.		
6.3. Methods and material for contain	ment and cleaning up		
For containment	: Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal.		
Methods for cleaning up	: This material and its container must be disposed of in a safe way, and as per local legislation.		
6.4. Reference to other sections			
For further information refer to section 13.			
SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Precautions for safe handling	: Provide adequate ventilation to minimize dust and/or vapor concentrations.		
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety practice.		
7.2. Conditions for safe storage, inclu	ding any incompatibilities		
Technical measures	: Store in a well-ventilated place. Keep container tightly closed.		
Storage conditions	: Store in freezer (-20 C). Protect from light.		
7.3. Specific end use(s)			
No additional information available			
SECTION 8: Exposure controls/per	rsonal protection		
8.1. Control parameters			
No additional information available			
8.2. Exposure controls			
Appropriate engineering controls	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.		
Personal protective equipment	: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.		
Materials for protective clothing	: Wear suitable protective clothing and gloves.		
Hand protection	: Wear suitable protective clothing and gloves.		
Eye protection	: Wear eye protection. Chemical goggles or face shield with safety glasses.		
Skin and body protection	: Wear suitable protective clothing, gloves and eye/face protection.		
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.		
Environmental exposure controls	: Avoid release to the environment.		
SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and chemical properties			
Physical state	: Solid		
Appearance	: Solid		
Molecular mass	: 361.97 g/mol (Labeled)		

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рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available

9.2. Other information No additional information available

SECTION 10: Stability and reactivity			
10.1. Reactivity	10.1. Reactivity		
No additional information available			
10.2. Chemical stability			
Stable if stored under recommended condit	ions.		
10.3. Possibility of hazardous reaction	DNS		
No additional information available			
10.4. Conditions to avoid			
No additional information available			
10.5. Incompatible materials	10.5. Incompatible materials		
Strong oxidizing agents.			
10.6. Hazardous decomposition proc	10.6. Hazardous decomposition products		
Carbon oxides (CO, CO2). Nitrogen oxides. Oxides of phosphorus.			
SECTION 11: Toxicological infor	SECTION 11: Toxicological information		
11.1. Information on toxicological ef	fects		
Acute toxicity	: Not classified		
Skin corrosion/irritation	: Not classified		
Serious eye damage/irritation	: Not classified		
Respiratory or skin sensitization	: Not classified		

the purposes of health, safety and environmental requirements only. It should not therefore be

construed as guaranteeing any specific property of the product.

Carcinogenicity: Not classifiedReproductive toxicity: Not classifiedSpecific target organ toxicity – single exposure: Not classifiedSpecific target organ toxicity – repeated
exposure: Not classifiedAspiration hazard: Not classifiedPotential Adverse human health effects and: This information is based on our current knowledge and is intended to describe the product for

Potential Adverse human health effects and symptoms

: Not classified

Germ cell mutagenicity

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Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: May be harmful in contact with skin. May cause moderate irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.

SECTI	ON 12: Ecological information	
12.1.	Toxicity	
Ecology	- general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
12.2.	Persistence and degradability	
No additi	ional information available	
12.3.	Bioaccumulative potential	
No additi	ional information available	
12.4.	Mobility in soil	
No additi	ional information available	
12.5.	Results of PBT and vPvB assessmen	t
No additi	ional information available	
12.6.	Other adverse effects	
No additi	ional information available	
SECTI	ON 13: Disposal consideration	S
13.1.	Waste treatment methods	
Regional	legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and loca environmental control regulations.
Product/I	Packaging disposal recommendations	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a license professional waste disposal service to dispose of this material.
Ecology	- waste materials	: Dispose of as unused product.
	ON 14: Transport information dance with ADR / RID / IMDG / IATA / AD	N
14.1.	UN number	
Not appli	icable	
14.2.	UN proper shipping name	
Not appli	icable	
14.3.	Additional information	
Other inf	ormation	: No supplementary information available.
Special t	ransport precautions	: Not dangerous.
Overlan	d transport	
No additi	ional information available	
Transpo	rt by sea	
No additi	ional information available	
Air trans No additi	sport ional information available	
14.4.	Environmental hazards	
Other inf		: No supplementary information available.
14.5.	Special precautions for user	
	ransport precautions	: Not dangerous.
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98%) CNLM-6836-SL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information		
15.1. US Federal regulations		
2'-DEOXYGUANOSINE 5'-MONOPHOSPHATE (U-13C, 98%; U-15N, 98%) (902-04-5 (Unlabeled))		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.	
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.	

15.2. International regulations

CANADA

2'-DEOXYGUANOSINE 5'-MONOPHOSPHATE (U-13C, 98%; U-15N, 98%) (902-04-5 (Unlabeled))
Listed on the Connection DCL (Demonstric Culterton and List)

Listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

No additional information available

15.3. US State regulations

2'-DEOXYGUANOSINE 5'-MONOPHOSPHATE (U-13C, 98%; U-15N, 98%)(902-04-5 (Unlabeled))	
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	No
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No
State or local regulations	U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information	
Other information	: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.
NFPA health hazard	: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	
Health	: 0 Minimal Hazard - No significant risk to health
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard

CIL Substance SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product